

A blue-tinted photograph of the Austin, Texas skyline at dusk. In the foreground, the Congress Avenue Bridge spans the Colorado River, with many Mexican free-tailed bats flying in large numbers against the sky. The city's modern skyscrapers, including the Frost Bank Tower and the W Hotel, are visible in the background.

RStudio Connect

Past, Present, & Future

Jeff Allen

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It started off great...

- Everyone was in R
- Just a handful of artifacts
- Using the latest R packages
- Things "just worked"





...then went downhill

- Data scientists were gatekeepers
 - "Where is this resource, again?"
 - Spent all day rerunning analysis
- Irreproducible
- Content is spread all over
- Insecure



Studio Connect





Studio Connect

- A content hub and execution engine for all your data products
- Push-button deployment from RStudio IDE
- Schedule and distribute R Markdown
- Scale Shiny and Plumber
- Manage access controls
- On-premises, commercial Linux application



New in v1.7.0

Available today!

- Programmatic deployment
- Customizable email
- Content instrumentation



A photograph of a large flock of birds, likely bats, flying in a dense cluster against a darkening sky. They are silhouetted against the light from the setting sun. In the foreground, the underside of a bridge arch is visible, and in the background, city buildings are silhouetted across a body of water.

Demo



Python

- Our software engineers kept sending us Python
- Difficult to integrate historically
- Improved with `reticulate` package
- But how to publish?



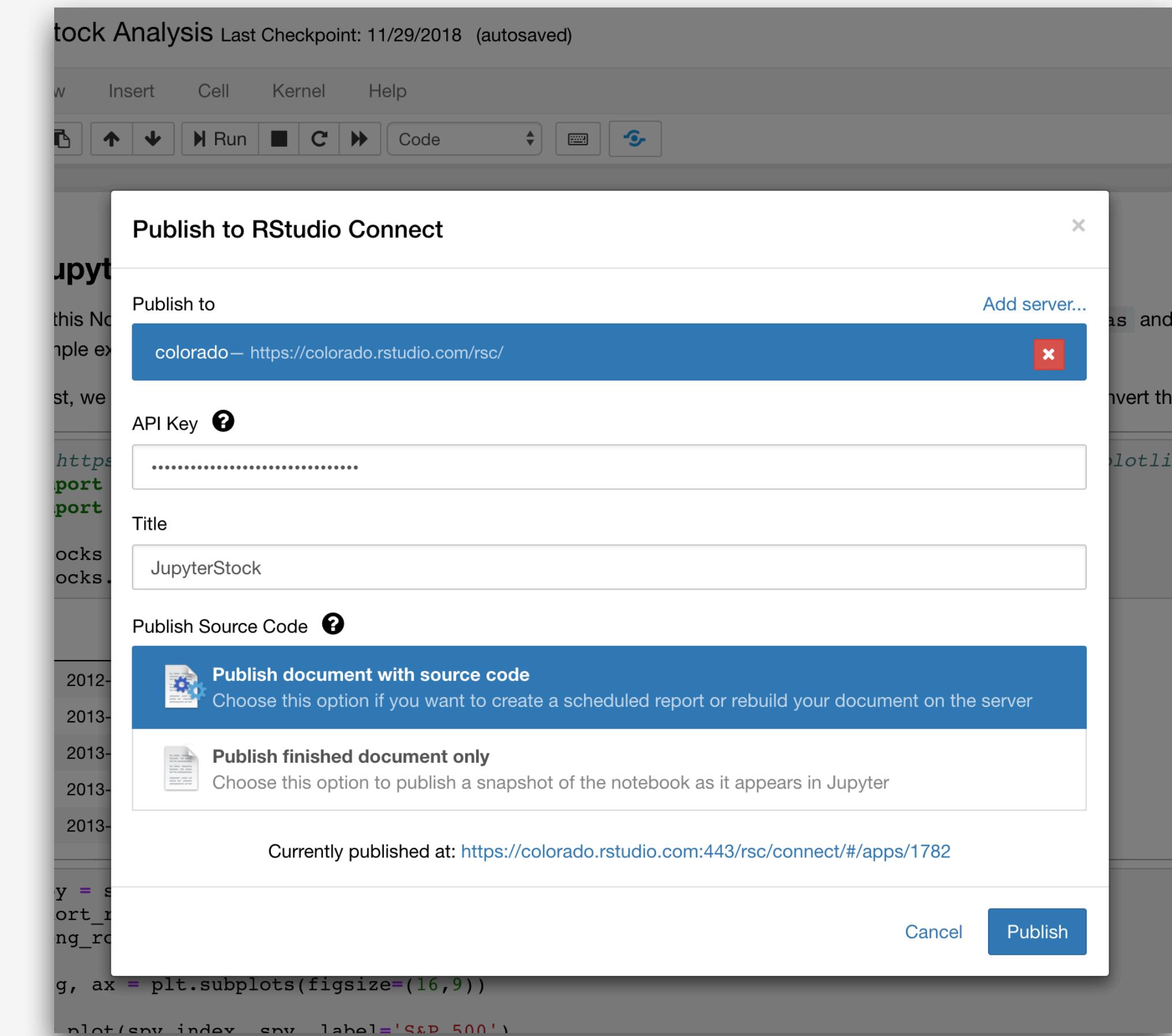
Announcing Python support in Connect!

Python Support

- rsconnect captures Reticulated Python dependencies down to the package version using pip
- Connect recreates Python environment using virtualenv

Jupyter Notebook Support

- Extension available to enable push-button publishing from Jupyter Notebooks
- Publish rendered document or with source
 - Schedule and distribute just like RMD



A photograph of a large flock of birds, likely bats, flying in a dense cluster against a darkening sky. They are silhouetted against a bright horizon where city lights and a bridge are visible.

Python Demo

What's Next?

- SAML
- Job launcher integration
- Git integration
- Improved global view of scheduled content
- Customizable views into content
- More Connect Server API endpoints

All Content

Face Detection

rstudio

Example of detecting faces.

Type: Document Deployed: Last Tuesday at 5:51 AM

Stock Information Plumber API

rstudio

This Plumber API surfaces the ability to programmatically request price history or a number representing the relative volatility of a stock ticker

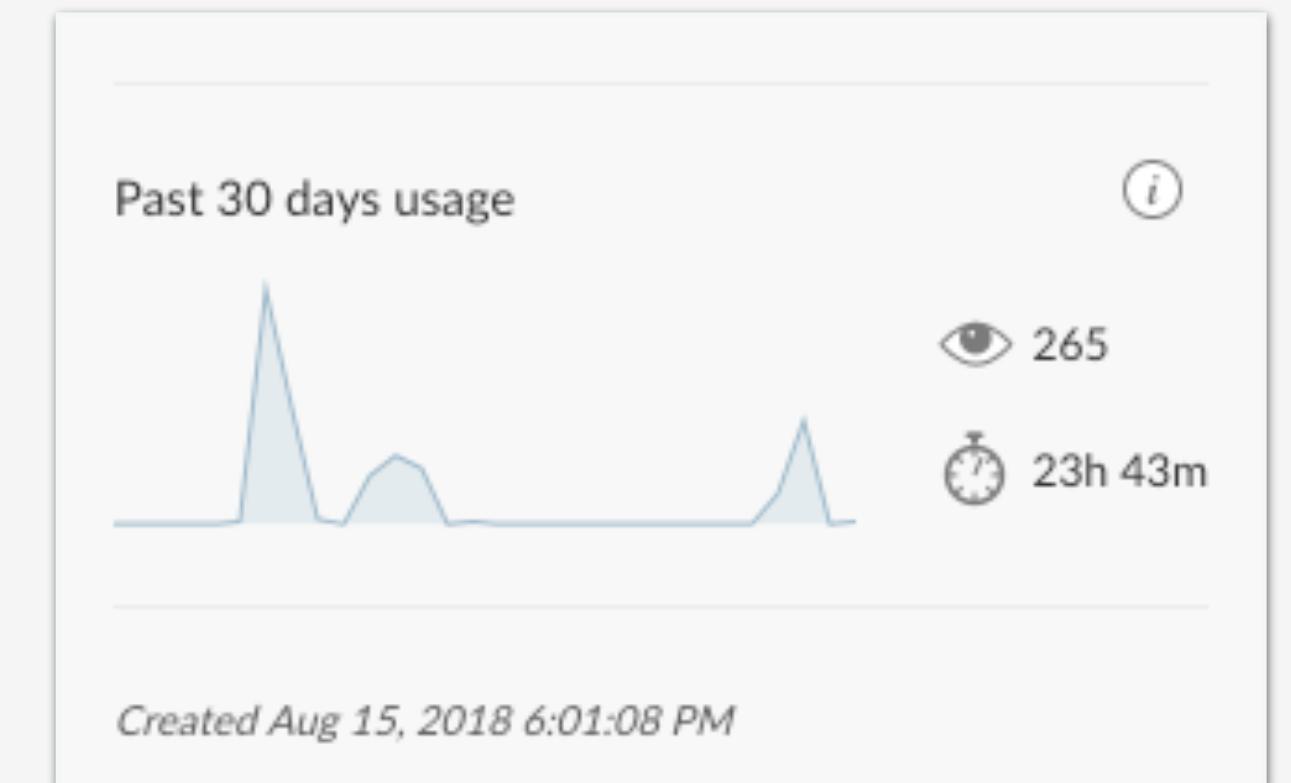
Type: API Deployed: 01/04/2019

Stock Portfolio Shiny Application

rstudio

This Shiny application allows interactive exploration of portfolio returns along with tuning of model parameters

Type: Document Deployed: 01/04/2019





#rcatladies

Questions?

- Download free 45-day trial:
<https://rstd.io/connect>
- Slides: <https://rstd.io/rsc170>
- "Publish" booth in Pro Lounge

 @trestleJeff

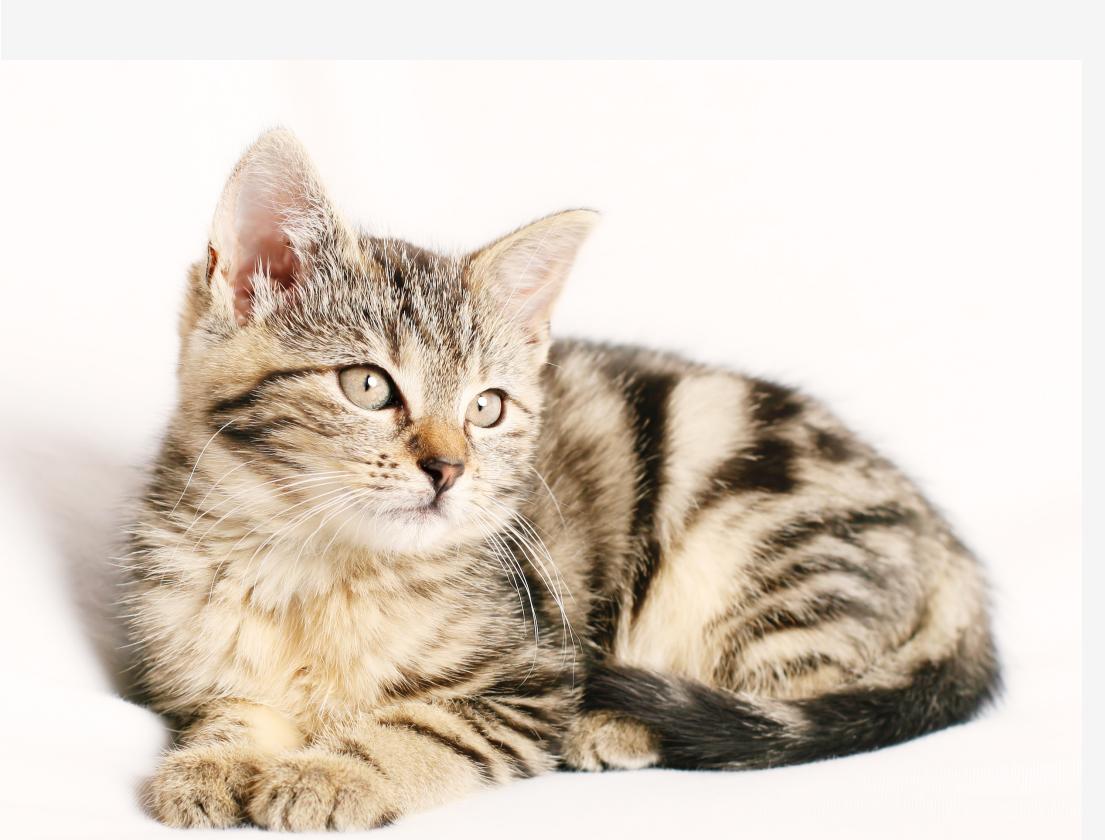
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Conda?

- Not yet.
- We'll still try to capture dependencies using pip
- Sometimes, it will work fine
- Some dependencies aren't available on pypi.org, so those would fail

Jupyter^{*}?

- We do support JupyterHub, docs are included alongside our Python package
- We do not yet support JupyterLab, but are interested in eventually adding support



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